Journal of Geochemical Exploration, 42 (1992) 400–401
Elsevier Science Publishers B.V., Amsterdam

Contents Volume 42 (1991/1992)

Special Issue

Fluid inclusion gas analyses in mineral exploration, edited by Stephen E. Kesler

Introduction 1
Fluid inclusion volatiles as an exploration guide to black shale-hosted gold deposits, Dolgellau gold belt, North Wales, UK
T.J. Shepherd (Nottingham, UK), S.H. Bottrell (Leeds, UK) and M.F. Miller (Nottingham, UK) 5
Fluid inclusion gas chemistry as a potential minerals exploration tool: Case studies from Creede, CO, Jerritt Canyon, NV, Coeur d'Alene district, ID and MT, southern Alaska mesothermal veins, and mid-continent MVT's
G.P. Landis and A.H. Hofstra (Denver, CO, USA) 25
Geology and geochemical analysis of mineralizing fluids at the St. Cloud and U.S. Treasury mines, Chloride mining district, New Mexico
D.I. Norman, R.W. Harrison and C. Behr Andres (Socorro, NM, USA) 61
Application of gas analysis of jasperoid inclusion fluids to exploraion for micron gold deposits
J.R. Graney, S.E. Kesler and H.D. Jones (Ann Arbor, MI, USA) 91
Fluid inclusion gas composition of some mineral deposits and a geothermal area
S. Takenouchi (Tokyo, Japan) 107
Use of fluid inclusion gas surveys for the assessment of lode deposits (with reference to gold and tungsten deposits)
F.A. Letnikov and A.V. Narseev (Irkutsk, USSR) 133
Decrepitation in gold exploration. A case history from the Cotan prospect, N.T.
K. Burlinson (Winnelie, Australia) 143
Multichannel micro-Raman spectroscopy of fluid inclusion gases in mineral exploration
R.W.T. Wilkins (North Ryde, Australia) and L. Jenatton (Grenoble, France) 157
Fluid inclusion volatile analysis by heated crushing, on-line gas chromatography; applications to Archean fluids
C.J. Bray, E.T.C. Spooner and A.V. Thomas (Toronto, Canada) 167
Fluid inclusion gas analysis of hydrothermal vein molybdenum deposits associated with the Drammen granite in the Permian Oslo Rift, Norway
I.F. Walder, D.I. Norman (Socorro, NM, USA) and T.V. Segalstad (Oslo, Norway) 195
Application of fluid inclusions in mineral exploration
K.J. Moon (Daejeon, Korea) 205

Announcement 223

Research papers
Field-based identification of minerals using a battery-operated electrochemical measuring system with mechanical transfer of the solid to a graphite electrode
A.M. Bond and F. Scholz (Geelong, Australia) 227

Geochemistry and clast lithology as an aid to till classification, Matheson, Ontario, Canada
M.B. McClenaghan (Toronto, Canada), O.P. Lavin (Denver, CO, USA), I. Nichol (Kingston, Canada) and J. Shaw (Edmonton, Canada) 237
Preliminary geochemical exploration in semiarid climate: the case of a porphyry-type occurrence in Sardinia (Italy)
L. Maccioni, M. Marchi, G. Palalino and S. Pretti (Cagliari, Italy) 261
Reconnaissance exploration geochemistry in the central Brooks Range, northern Alaska: implications for exploration of sediment-hosted zinc-lead-silver deposits
K.D. Kelley (Denver, CO, USA) and D.L. Kelley (Golden, CO, USA) 273
Lithogeochemistry, metal and alteration zoning in the Proterozoic Tallberg porphyry-type deposit, northern Sweden
P. Weihed (Göteborg, Sweden) 301
Geochemical exploration for copper-nickel deposits in the cool-humid climate of northeastern Minnesota
W.R. Miller, W.H. Ficklin and J.B. McHugh (Denver, CO, USA) 327
Direct measurement of U-238 and disequilibrium state in geological samples by low energy scintillation gamma spectroscopy
G. Yaprak and G. Yener (İzmir, Turkey) 345
Trace elements in potassium-feldspar and muscovite as a guide in the prospecting for lithium- and tin-bearing pegmatites in Sweden
S.-A. Smeds (Uppsala, Sweden) 351
The FeO/(FeO+MgO) ratio of tourmaline: a useful indicator of spatial variations in granite-related hydrothermal mineral deposits
F. Pirajno and R.H. Smithies (Grahamstown, South Africa) 371

Short communication
Goslarite: threat or promise for the environment of the Geul Valley?
R.D. Schuiling (Utrecht, Netherlands) 383

Discussion
Bias in the analysis of geological materials for gold using current methods, by G.E.M. Hall et al.
*Comments — J.B. McHugh and R.M. O'Leary (Denver, CO, USA) 387
*Reply — G.E.M. Hall and J.E. Vaive (Ottawa, Canada) 388

Book reviews
Analytical Methods for Geochemical Exploration, by J.C. Van Loon and R.R. Barefoot — A.W. Rose 391
Geology of the Mineral Deposits of Australia and Papua New Guinea, by F.E. Hughes (Editor) — R. Watters 392
Metallogenic Models and Exploration Criteria for Buried Carbonate-Hosted Ore Deposits — A Multidisciplinary Study in Eastern England, by J.A. Plant and D.G. Jones (Editors) — D.F. Sangster 393
Metallogeny of Tin, by B. Lehmann — R.A. Ayuso 395
Gold Metallogeny and Exploration, by R.P. Foster (Editor) — R.E. Beane 397
Other publications received 398

Contents Vol. 42 400